

AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. §1.121, the following is a complete listing of the claims of the present application, with amendments shown. The following listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (presently amended) A method of damaging target cells in a subject mammal, the method comprising administering to the subject mammal
 - (1) a nucleic acid encoding a compound capable of converting a substrate to acetaldehyde, wherein said compound is an enzymatically active portion of human alcohol dehydrogenase; and
 - (2) a substrate which is converted to acetaldehyde by the portion capable of converting said substrate to acetaldehyde;wherein said substrate is ethanol.
2. (original) A method according to claim 1 further comprising administering a component that is capable of inhibiting aldehyde dehydrogenase.
3. (original) A method according to claim 2 wherein said component that is capable of inhibiting aldehyde dehydrogenase is Disulfiram.
4. (previously presented) A method according to any one of claims 1 to 3 wherein the nucleic acid is in the form of a viral vector.

5. (original) A method according to claim 4 wherein the viral vector is a DNA based viral vector.

6. (original) A method according to claim 5 wherein the DNA based viral vector is an adenovirus derived viral vector.

7. (previously presented) A method according to any one of claims 1 to 3 wherein the nucleic acid comprises a polynucleotide comprising a target cell-specific promoter operably linked to a polynucleotide encoding said alcohol dehydrogenase.

8. (previously presented) A method according to claim 1 in which the portion of alcohol dehydrogenase converts the ethanol to acetaldehyde as a result of its enzymatic activity.

9. (previously presented) A method according to claim 4 wherein said vector comprises a target cell specific portion.

10. (original) A method according to claim 9 in which the target cell specific portion comprises an antibody or part thereof.

11. (previously presented) A method according to claim 9 in which the target-cell specific portion is capable of selectively binding to a cell surface entity.

12. (original) A method according to claim 11 in which the cell surface entity is a tumour-associated antigen.

13. (previously presented) A method according to claim 9 in which the target cell specific portion comprises a liposome.

14. (withdrawn) A method according to claim 1 further comprising administering radiation therapy is also administered to the subject.

15. (withdrawn) A composition comprising a compound as defined in claim 1, wherein the portion of alcohol dehydrogenase in an enzymatically active portion of human alcohol dehydrogenase.

16. (withdrawn) A composition according to claim 15 wherein said human alcohol dehydrogenase is alcohol dehydrogenase β 2.

17. (withdrawn) A composition according to claim 15 or claim 16 further comprising a substance which is capable of inhibiting aldehyde dehydrogenase.

18. (withdrawn) A composition according to claim 17 wherein said substance which is capable of inhibiting aldehyde dehydrogenase is Disulfiram.

19. (withdrawn) A composition according to any one of claims 15 or 16 further comprising a chemotherapeutic agent.

20. (withdrawn) A composition according to any one of claims 15 or 16 further comprising an immunosuppressive agent.

21. (canceled)

22. (withdrawn) A method for the treatment of cancer comprising administering to a subject in need thereof a composition of any one of claims 15 or 16 in an amount effective to treat said cancer.

23. (withdrawn) A method of treating cancer comprising administering ethanol or pyruvate to a subject in need thereof.

24. (withdrawn) A therapeutic system or kit comprising a compound or system as defined in claim 1, or a composition as defined in claim 15 or 16, and a second component which comprises ethanol, and optionally a third component that is capable of inhibiting aldehyde dehydrogenase.

25. (withdrawn) A therapeutic system or kit according to claim 24 in which the aldehyde producing portion is a catalytically active portion of alcohol dehydrogenase, the second component is ethanol and the third component is Disulfiram.

26. (canceled)

27. (canceled)

28. (withdrawn) A composition according to claim 19 further comprising an immunosuppressive agent.

29. (withdrawn) A composition according to claim 17 further comprising a chemotherapeutic agent.

30. (withdrawn) A composition according to claim 18 further comprising a chemotherapeutic agent.

31. (withdrawn) A composition according to claim 17 further comprising an immunosuppressive agent.

32. (withdrawn) A composition according to claim 18 further comprising an immunosuppressive agent.

33. (withdrawn) A composition according to claim 19 further comprising an immunosuppressive agent.

34. (withdrawn) A method for the treatment of cancer comprising administering to a subject in need thereof a composition of claim 17 in an amount effective to treat said cancer.

35. (withdrawn) A method for the treatment of cancer comprising administering to a subject in need thereof a composition of claim 18 in an amount effective to treat said cancer.

36. (withdrawn) A method for the treatment of cancer comprising administering to a subject in need thereof a composition of claim 19 in an amount effective to treat said cancer.

37. (withdrawn) A method for the treatment of cancer comprising administering to a subject in need thereof a composition of claim 20 in an amount effective to treat said cancer.